(19) World Intellectual Property Organization

International Bureau



- 1 COLOR CONTROL DE CONTROL C

(43) International Publication Date 23 June 2005 (23.06.2005)

PCT

(10) International Publication Number WO 2005/056775 A1

(51) International Patent Classification7:

C12N 1/20

449-846 (KR). SIM, Jae-Ick [KR/KR]; 205-1604, Seongyeong2cha Apt., Jeungpo-dong, Icheon-si, Gyeonggi-do 467-110 (KR).

(21) International Application Number:

PCT/KR2004/002993

(22) International Filing Date:

18 November 2004 (18.11.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2003-0089714

10 December 2003 (10.12.2003) KR

- (71) Applicant (for all designated States except US): CJ CORP. [KR/KR]; 500, Namdaemunno 5 ga, Jung-gu, Seoul 100-095 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PARK, Young-Hoon [KR/KR]; 111-102, Mujigaedaerim Apt., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-703 (KR). CHANG, Jea-Young [KR/KR]; 101-1701, Samick Apt., 766-4, Hogye-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-080 (KR). LEE, Jin-Nam [KR/KR]; 106-101, Hyundai Apt., Gimnangjang-dong, Yongin-si, Gyeonggi-do 449-709 (KR). OH, Ki-Hoon [KR/KR]; Deokpyeong 1-2-ri, Majang-myeon, Icheon-si, Gyeonggi-do 467-812 (KR). KIM, Jeong-Hwan [KR/KR]; 1-1401, Geukdong Apt., Garak 2-dong, Songpa-gu, Seoul 138-743 (KR). OH, Yoon-Suk [KR/KR]; 101-1501, Dongbo Apt., 703, Pungdeokcheon-ri, Suji-eup, Yongin-si, Gyeonggi-do

- (74) Agent: LEE, Duck-Rog; YEiL Patent & Trademark International, YEiLPAT Bldg., 669-17, Yorksam-dong, Kangnam-ku, 669-17, Yorksam-dong, Kangnam-ku, Seoul 135-915 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A MICROORGANISM PRODUCING 5'-XANTHYLIC ACID

(57) Abstract: The invention relates to a microorganism, obtained by treating Corynebacterium ammoniagenes KCCM 10488 producing 5'- Xanthylic acid as parent strain with UV radiation and mutation Derivatives such as N-methyl-N'nitro-N-nitrosoguanidine (NTG), Having a resistance to 5-fluorotryptophan which enhances Biosynthesis of N5-N10- tetrahydrofolate used for transferring Two formyl group during the process of puring biosysthesis, making It possible to accumulate 5'xanthylic acid in culture medium at a high Yield and high concentration rate same period of fermentation.

